OIPE JC54 APR 22 2002 PATENT & TRADEMARK OFFICE

DECLARATION

In re application of Pierre Legrain and al., serial number N° 10/023,530 filed on December 18th, 2001, for PROTEINS THAT INTERACT WITH βTrCP :

I prepared the electronic version and the paper copy of the Sequence Listing in connection with the captioned US patent application. The Sequence Listing information recorded in the computer readable form is identical to the written paper Sequence Listing.

Aude GUENARD

OIPE JC54 APR 22 2002 PATENT & TRADEMARK OFFICE

SEQUENCE LISTING

<110> LEGRAIN, Pierre
BENAROUS, Richard

BLOT, Guillaume
LASSOT, Irina

<120> PROTEINS THAT INTERACT WITH BETA TrCP

<130> B4717A

<140> 10/023,530
<141> 2001-12-18

<150> 60/256,276
<151> 2000-12-18

<160> 30

<170> PatentIn version 3.1

<210> 1

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> gene

<222> (1)..(657)

<223> Beta TrCP

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agacagacat acaacagctg tgccagactc tgcttaaacc aagaaacagt atgtttagca 180

agcactgcta tgaagactga gaattgtgtg gccaaaacaa aacttgccaa tggcacttcc 240

agtatgattg tgcccaagca acggaaactc tcagcaagct atgaaaagga aaaggaactg 300

tgtgtcaaat actttgagca gtggtcagag tcagatcaag tggaatttgt ggaacatctt 360

atatcccaaa tgtgtcatta ccaacatggg cacataaact cgtatcttaa acctatgttg 420

cagagagatt tcataactgc tctgccagct cggggattgg atcatatcgc tgagaacatt 480

ctgtcatacc tggatgccaa atcactatgt gctgctgaac ttgtgtgcaa ggaatggtac 540

cgagtgacct ctgatggcat gctgtggaag aagcttatcg agagaatggt caggacagat 600

tctctgtgga gaggcctggc agaacgaaga ggatggggac agtatttatt caaaaac 657

<210> 2

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> BetaTrCP

<222> (1)..(219)

<223> F-box protein

<400> 2

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Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro Arg Lys
20 25 30

Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser Cys Ala
35 40 45

Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr Ala Met
50 55 60

Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly Thr Ser
65 70 75 80

Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr Glu Lys
85 90 95

Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu Ser Asp
100 105 110

Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His Tyr Gln
115 120 125

His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg Asp Phe
130 135 140

Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu Asn Ile
145 150 155 160

Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu Val Cys
165 170 175

Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys Lys Leu
180 185 190

Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu Ala Glu
195 200 205

Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn
210 215

<210> 3

<211> 1680

<212> DNA

<213> Homo sapiens

<220>

<221> gene

<222> (1)..(1680)

<223> Ras SF1

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ctgcagccaa gaggactcgg actcggagct cgagcagtac ttcaccgcgc gaacctcgct 180

agctcgcagg ccgcgccggg accaggacga gcctgtggag tgggagacac ctgacctttc 240

tcaagctgag attgagcaga agatcaagga gtacaatgcc cagatcaaca gcaacctctt 300

catgagcttg aacaaggacg gttcttacac aggcttcatc aaggttcagc tgaagctggt 360

gcgccctgtc tctgtgccct ccagcaagaa gccaccctcc ttgcaggatg cccggcgggg 420

cccaggacgg ggcacaagtg tcaggcgccg cacttccttt tacctgccca aggatgctgt 480

caagcacctg catgtgctgt cacgcacaag ggcacgtgaa gtcattgagg ccctgctgcg 540

aaagttcttg gtggtggatg acccccgcaa gtttgcactc tttgagcgcg ctgagcgtca 600

cggccaagtg tacttgcgga agctgttgga tgatgagcag cccctgcggc tgcggctcct 660

ggcagggccc agtgacaagg ccctgagctt tgtcctgaag gaaaatgact ctggggaggt 720

gaactgggac gccttcagca tgcctgaact acataacttc ctacgtatcc tgcagcggga 780

ggaggaggag cacctccgcc agatcctgca gaagtactcc tattgccgcc agaagatcca 840

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gagtgtgcat ggaggccctc ctgtgctggg ggaatgagcc cagagaacag cgaagtagct 1020

tgctccctgt gtccacctat gggtgtagcc aggtatggct ctgcaccct ctgccctcat 1080

tactgggcct tagtgggcca gggctgccct gagaagctgc tccaggcctg cagcaggagt 1140

ggtgcagaca gaagtctcct caatttttgt ctcagaagtg aaaatcttgg agaccctgca 1200

aacagaacag ggtcatgttt gcaggggtga cggccctcat ctatgaggaa aggttttgga 1260

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aggcattgag gaagagtctt ggtttctctc tacagtgcca actcctcaca caccctgagg 1380

tcagggagtg ctggctcaca gtacagcatg tgccttaatg cttcatatga ggaggatgtc 1440

cctgggccag ggtctgtgtg aatgtgggca ctggcccagg ttcatacctt atttgctaat 1500

caaagccagg gtctctccct caggtgtttt ttatgaagtg cgtgaatgta tgtaatgtgt 1560

ggtggcctca gctgaatgcc tcctgtgggg aaaggggttg gggtgacagt catcatcagg 1620

cctggggctg agagaattgg ctcaataaag atttcaagat ccaaaaaaaa aaaaaaaaaa 1680

<210> 4

<211> 270

<212> PRT

<213> Homo sapiens

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<221> RasSF1

<222> (1)..(270)

<223> tumor suppressor

<400> 4

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Thr Ser Ser Gly Tyr Cys Ser Gln Glu Asp Ser Asp Ser Glu Leu Glu
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Gln Tyr Phe Thr Ala Arg Thr Ser Leu Ala Arg Arg Pro Arg Arg Asp
35 40 45

Gln Asp Glu Pro Val Glu Trp Glu Thr Pro Asp Leu Ser Gln Ala Glu
50 55 60

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Ile Glu Gln Lys Ile Lys Glu Tyr Asn Ala Gln Ile Asn Ser Asn Leu
65                  70                  75                  80

Phe Met Ser Leu Asn Lys Asp Gly Ser Tyr Thr Gly Phe Ile Lys Val
                85                  90                  95

Gln Leu Lys Leu Val Arg Pro Val Ser Val Pro Ser Ser Lys Lys Pro
            100                 105                 110

Pro Ser Leu Gln Asp Ala Arg Arg Gly Pro Gly Arg Gly Thr Ser Val
        115                 120                 125

Arg Arg Arg Thr Ser Phe Tyr Leu Pro Lys Asp Ala Val Lys His Leu
    130                 135                 140

His Val Leu Ser Arg Thr Arg Ala Arg Glu Val Ile Glu Ala Leu Leu
145                 150                 155                 160

Arg Lys Phe Leu Val Val Asp Asp Pro Arg Lys Phe Ala Leu Phe Glu
                165                 170                 175

Arg Ala Glu Arg His Gly Gln Val Tyr Leu Arg Lys Leu Leu Asp Asp
            180                 185                 190

Glu Gln Pro Leu Arg Leu Arg Leu Leu Ala Gly Pro Ser Asp Lys Ala
        195                 200                 205

Leu Ser Phe Val Leu Lys Glu Asn Asp Ser Gly Glu Val Asn Trp Asp
    210                 215                 220

Ala Phe Ser Met Pro Glu Leu His Asn Phe Leu Arg Ile Leu Gln Arg
225                 230                 235                 240

Glu Glu Glu Glu His Leu Arg Gln Ile Leu Gln Lys Tyr Ser Tyr Cys
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Arg Gln Lys Ile Gln Glu Ala Leu His Ala Cys Pro Leu Gly
            260                 265                 270
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<210> 5

<211> 10

<212> DNA

<213> Artificial sequence

<220>

<223> linker to clone into pP6 plasmid

<220>

<221> HGX931

<222> (1)..(10)

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<400> 5
gggccacgaa 10

<210> 6

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<221> HGX932

<222> (1)..(13)

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<400> 6
ttcgtggccc ctg 13

<210> 7

<211> 69

<212> DNA

<213> Artificial sequence

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<223> oligonucleotide used for the construction of pP6 plasmid

<220>

<221> oligonucleotide

<222> (1)..(69)

<223> 5'-3' single-stranded
complementary to sequence ID NO.28

<400> 7

tcgaggggc cccagtggcc ctttaattaa ggatccccac tagtgcggcc gcggcccctg 60

cggccatgg 69

<210> 8

<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide used for the construction of pB6 plasmid

<220>

<221> oligonucleotide

<222> (1)..(64)

<223> 5'-3' single-stranded
Complementary to sequence SEQ ID NO. 29

<400> 8
tcgaggggc cccagtggcc ctttaattaa ggatccccac tagtgcggcc gcggcccgtc 60

cggc 64

<210> 9

<211> 68

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide used for the construction of pB20 plasmid

<220>

<221> oligonucleotide

<222> (1)..(68)

<223> 5'-3' single-stranded
Complementary to SEQ ID NO. 30

<400> 9
ggtcgagggg ccccagtggc ccttaattaa ggatccccac tagtgcggcc gcggcccgtc 60

cggccccg 68

<210> 10

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer used in PCR on yeast colonies

<220>

<221> ABS1

<222> (1)..(20)

<223> PCR primer

<400> 10
gcgtttggaa tcactacagg 20

<210> 11

<211> 19

<212> DNA

<213> Artificial Sequence

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<223> Primer used in PCR on yeast colonies

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<221> ABS2

<222> (1)..(19)

<223> PCR primer

<400> 11
cacgatgcac gttgaagtg 19

<210> 12

<211> 36

<212> DNA

<213> homo sapiens

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<221> TrCP(1-260)sense

<222> (1)..(36)

<223> Beta-TrCP primer

<400> 12
gcgagcggat ccatggaccc ggccgaggcg gtgctg 36

<210> 13

<211> 42

<212> DNA

<213> homo sapiens

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<221> TrCP(1-260)antisense

<222> (1)..(42)

<223> Beta-TrCP primer

<400> 13
gcgagcgtcg acctagggcc ctctctgtaa actatgtctt cc 42

<210> 14

<211> 39

<212> DNA

<213> homo sapiens

<220>

<221> TrCP(261-569)sense

<222> (1)..(39)

<223> Beta-TrCP primer

<400> 14
gcgagcggat ccatgattca ctgccgaagt gaaacaagc 39

<210> 15

<211> 42

<212> DNA

<213> homo sapiens

<220>

<221> TrCP(261-569)antisense

<222> (1)..(42)

<223> Beta-TrCP primer

<400> 15
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<210> 16

<211> 36

<212> DNA

<213> homo sapiens

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<221> TrCP(1-333)sense

<222> (1)..(36)

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<400> 16
gcgagcggat ccatggaccc ggccgaggcg gtgctg 36

<210> 17

<211> 45

<212> DNA

<213> homo sapiens

<220>

<221> TrCP(1-333)antisense

<222> (1)..(45)

<223> Beta-TrCP primer

<400> 17
gcgagcgtcg acctagggcc catcccacac tctgaccgtg gaatc 45

<210> 18

<211> 36

<212> DNA

<213> Homo sapiens

<220>

<221> TrCP(deltaN)(144-569)sense

<222> (1)..(36)

<223> Beta-TrCP (deltaN) primer

<400> 18
gcgagcggat ccatgttcat aactgctctg ccagct 36

<210> 19

<211> 42

<212> DNA

<213> Homo sapiens

<220>

<221> TrCP(deltaN)(144-569)antisense

<222> (1)..(42)

<223> Beta-TrCP(deltaN) primer

<400> 19
gcgagcgtcg acctagggcc cttatctgga gatgtaggtg ta 42

<210> 20

<211> 19

<212> RNA

<213> Homo sapiens

<220>

<221> RasSF1dsRNA185

<222> (1)..(19)

<223> Sense strand sequence
Antisense strand SEQ ID NO.21

<220>

<221> RasSF1dsRNA185

<222> (1)..(19)

<223> Sense strand sequence (dTdT in 3')

<400> 20
gcugagauug agcagaaga 19

<210> 21

<211> 19

<212> RNA

<213> Homo sapiens

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<221> RasSF1dsRNA185

<222> (1)..(19)

<223> Antisense strand (dTdT in 3')

<400> 21
cgacucuaac ucgucuucu 19

<210> 22

<211> 21

<212> RNA

<213> Homo sapiens

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<221> RasSF1sequence

<222> (1)..(21)

<223> Target of Ras SF1 dsRNA 185

<400> 22
aagcugagau ugagcagaag a 21

<210> 23

<211> 19

<212> RNA

<213> Homo sapiens

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<221> RasSF1dsRNA202

<222> (1)..(19)

<223> Sense strand (dTdT in 3')

<400> 23
gaucaaggag uacaaugcc 19

<210> 24

<211> 19

<212> RNA

<213> Homo sapiens

<220>

<221> RasSF1dsRNA202

<222> (1)..(19)

<223> Antisense strand (dTdT in 3')

<400> 24
cuaguuccuc auguuacgg 19

<210> 25

<211> 21

<212> RNA

<213> homo sapiens

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<221> RasSF1sequence

<222> (1)..(21)

<223> target of the Ras SF1 ds RNA202

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aagaucaagg aguacaaugc c 21

<210> 26

<211> 19

<212> RNA

<213> mammalian

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<221> dsRNALucGL2

<222> (1)..(19)

<223> sense strand (dTdT in 3')

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cguacgcgga auacuucga 19

<210> 27

<211> 19

<212> RNA

<213> Mammalian

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<221> dsRNALucGL2

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<223> antisense strand (dTdT in 3')

<400> 27
gcaugcgccu uaugaagcu 19

<210> 28

<211> 69

<212> DNA

<213> Artificial sequence

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<223> oligonucleotide used to construct pP6 plasmid

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<222> (1)..(69)

<223> 5'-3' single stranded

Complementary to Sequence ID NO.7

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ggggccccc 69

<210> 29

<211> 64

<212> DNA

<213> Artificial sequence

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<223> oligonucleotide used to construct pB6 plasmid

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<221> oligonucleotide

<222> (1)..(64)

<223> 5'-3' single stranded
Complementary to SEQ ID NO. 8

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catggccgga cgggccgcgg ccgcactagt ggggatcctt aattaaaggg ccactggggc 60

cccc 64

<210> 30

<211> 76

<212> DNA

<213> Artificial sequence

<220>

<223> oligonucleotide used to construct pB20 plasmid

<220>

<221> oligonucleotide

<222> (1)..(76)

<223> 5'-3' single stranded
Complementary to SEQ ID NO.9

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ggcccctcga cctgca 76